



# Energy Savings Performance Contracting

Saving Facility Resources

Case Study



## West Valley School District – Yakima, WA



### Project Description:

The Mountainview Elementary corridor shown above is one of the most dramatic examples of improved lighting levels where original light meter readings averaged 4 foot candles before and 28 foot candles after. The project delivered similar results in both classrooms and gymnasiums throughout the district.

Project Completed Total: September 2007

Project Cost: \$754,468

Project Number: GA Project #2005-144 (2-1)

### *Annual Energy Project Savings:*

|                             |                 |                 |                 |
|-----------------------------|-----------------|-----------------|-----------------|
| <b>Electrical</b>           | \$54,800        | <b>kWh</b>      | 880,583         |
| <b>Natural Gas</b>          | \$0             | <b>Therms</b>   | 0               |
| <b>Fuel</b>                 | \$ 0            |                 |                 |
| <b>Water</b>                | \$ 0            | <b>Gallons</b>  | 0               |
| <b>Maintenance</b>          | \$0             |                 |                 |
| <b>Total Avoided Costs:</b> |                 |                 |                 |
| <b>Guaranteed</b>           | <b>\$50,754</b> | <b>Verified</b> | <b>\$54,800</b> |

---

## Funding Sources:

|                    |           |
|--------------------|-----------|
| Loans              | \$658,274 |
| Utility Incentives | \$96,194  |

## Project Managers:

---

Tim Critchlow,  
West Valley School District  
(509) 972-6030

Roger Wigfield,  
P.E. Energy Engineer,  
Dept. of General Administration  
(360) 902-7198

Warren Tastad,  
Construction Manager,  
McKinstry Company  
(509) 634-7237

---

---

**The entire district received energy efficient lighting upgrades which also provided lamp standardization to further reduce the districts operational and lighting maintenance costs.**

---

## Emission Reductions:

*Annual Reduction in CO2:*

**704,466 per year**

*Annual CO2 Reduction Represents:*

**Removing 47 cars from the road, or**

**Planting 96 acres of trees, or**

**Powering 65 homes**

## Key Points

- Replaced (240) 164 W lighting in the junior high school gymnasium with (66) 178 W T5HO lamp fixtures.
- Installed occupancy sensors in gymnasiums to control hours of operation and provide necessary lighting levels based on actual use.
- Replaced HID metal halide fixtures in two freezers located at the Junior High School with new T5HO fixtures.

For more information: email [GAEnergyTeam@ga.wa.gov](mailto:GAEnergyTeam@ga.wa.gov)  
Visit our web site at <http://www.ga.wa.gov/EAS/epc/espc.htm>